Ordering number: EN 843E

Monolithic Digital IC

No.843E

SANYO

LB1240

Fluorescent Display Tube Driver

The LB1240 has been designed for interfacing low-level digital devices to fluorescent display tubes. Its 8-circuit independent Darlington output stage is used for digit and segment drivers. Equivalent pull-down resistors are built in; externally connected resistors to prevent ghosts are no longer required. Output is activated when input voltages are at a low level, making the IC an ideal interface for N-channel MOS devices.

FEATURES

- 8 circuit independent Darlington driver.
- Capable of driving digits or segments.
- Built-in pull-down sink current.
- Rated at 55 V/30 mA

ABSOLUTE MAXIMUM RATINGS/T_a = 25°C

				unit
Maximum power supply voltage	V_{CC} max		–0.3 ~ +55.0	V
Output supply voltage	V_{OUT}		–0.3 ~ V_{CC}	V
Input supply voltage	V_{IN}	V_{IN} > GND	V_{CC} – 10 ~ V_{CC}	V
Maximum output current	I_{OUT}		–30	mA
Allowable power dissipation	P_d max		1.13	W
Operating ambient temperature	Topr		–20 ~ +75	°C
Storage ambient temperature	T_{stg}		–40 ~ +150	°C

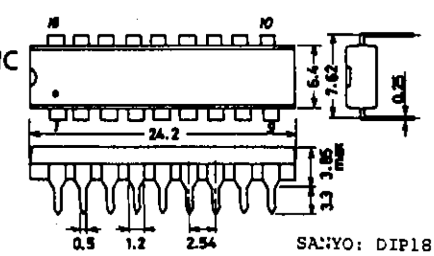
ALLOWABLE OPERATING CONDITIONS/T_a = 25°C

				unit
Power supply voltage	V_{CC}		4.75 ~ 55.0	V
Input (H) level voltage	V_{IH}	V_{IN} > GND, I_{OUT} = –30 mA	V_{CC}–10 ~ V_{CC}–2.8	V
Input (L) level voltage	V_{IL}	I_{OUT} ≦ –30μA	V_{CC}–0.45~V_{CC}	V

ELECTRICAL CHARACTERISTICS/T_a = 25°C, V_{CC} = 55 V

			min	typ	max	unit
Power supply current	I_{CCH}	All inputs, V_{IN} = V_{CC} – 10 V		5.0	8.0	mA
	I_{CCL}	All inputs open	0.3	1.0	1.6	mA
Output voltage	V_{OH}	V_{IN} = V_{CC} – 10 V, I_{OUT} = –30 mA	V_{CC} – 2.0	V_{CC}–1.6		V
	V_{OL}	V_{IN} = V_{CC} – 0.3 V, I_{OUT} = 0 mA			200	mV
Output leakage current	I_{OL}	V_{IN} = V_{CC} – 0.3 V, V_{OUT} = 0.5 V	–30			μA
Pull-down current	I_{OPL}	V_{OUT} = V_{CC}	0.2	0.4	1.0	mA
Input current	I_{INH}	V_{IN} = V_{CC} – 10 V	0.6	0.9	1.3	mA

Package Dimensions 3007A-D18IC
(unit : mm)



SANYO: DIP18

Equivalent circuit and pin assignment

Unit (resistance: Ω)

